

ENSE 471 - User Interface Programming Professor: Tim Maciag Milestone 1.1 - Prep and Analysis

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Group Name: UserPro

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Github URL:

 $\frac{https://github.com/zainshafiq/User-Interface-Programming-Human-Centered}{-Design-}$

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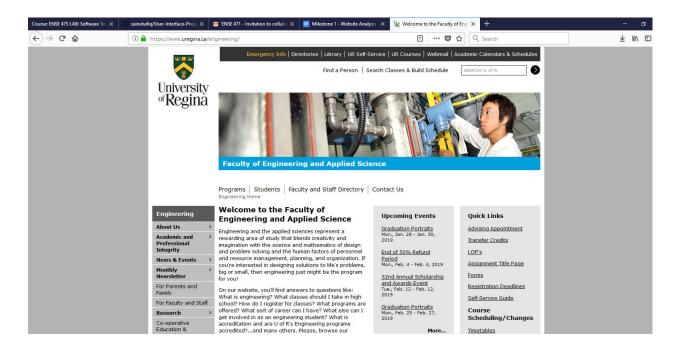
Purpose

The focus of this analysis is on the overall user experience (utility, usability, desirability) of the design (controls/layout/etc.) and associated page content of the Engineering faculty websites of the University of Regina, University of British Columbia, Massachusetts Institute of Technology and the University of Alberta. Multiple customer viewpoints were considered in the analysis, and the target customers include future students, current students, parents, alumni, etc.

We analyzed the different aspects of each website that was liked as well as what could be done better for each one.

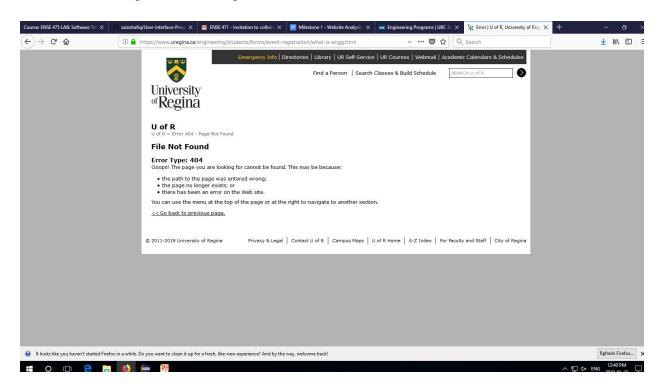
University of Regina Engineering

https://www.uregina.ca/engineering/



- Utility (perceived usefulness) High, it shows all the different categories on home page, can easily find what they want by quick looking through the webpage
- Usability
 - Learnability good layout that is an inline list on the mid-top of the page. Its shows which part that the users want to go through
 - Efficiency once clicked the link, content will dynamically show in the middle, instead of jump to another page, this can increase efficiency by reducing the response time used to open a new webpage. Some quick links can be found on the right side also can increase users efficiency.
 - Memorability Low
 - Errors some links does not work
- Desirability layout for the whole page that works so badly. First of all, there are a lot of blank area on both sides that in every pages, it looks like the page is design for the mobile devices or any devices with vertical screen, it should be better adaption for every kind of screen. Secondly, the color of the pages is too simple, it makes user feel boring, it can not drive any users motivation to go deeper to look through the website. Thirdly, less visual feedback in pages, almost all the content are only displayed by text, less of user interaction.

Overall Experience-Boring



Current Student

- Utility (perceived usefulness) High, it shows all the different categories on home page, can easily find what they want by quick looking through the webpage.
- Usability
 - Learnability good things in the layout there is an inline list on the mid-top of the page. Its shows which part that the users want to go through
 - Efficiency once clicked the link, content will dynamically show in the middle, instead of jump to another page, this can increase efficiency by reducing the response time used to open a new webpage. Some quick links can be found on the right side also can increase users efficiency.
 - Memorability High.
 - Errors some links does not work
- Desirability Quick way to search for information.
- Overall Experience- Fast and convenient.

Alumni

- Utility (perceived usefulness) High, it shows all the different categories on home page, can easily find what they want by quick looking through the webpage.
- Usability

- Learnability good things in the layout there is an inline list on the mid-top of the page. Its shows which part that the users want to go through.
- Efficiency once clicked the link, content will dynamically show in the middle, instead of jump to another page, this can increase efficiency by reducing the response time used to open a new webpage. Some quick links can be found on the right side also can increase users efficiency.
- Memorability Low.
- Errors some links do not work.
- Desirability the layout for the whole page works so badly. First of all, there are lots of blank area on both sides that in every page, it looks like the page is designed for mobile devices or any device with a vertical screen. It should have better adaption for all types of screens. Secondly, the color of the pages is too simple, it makes user feel bored, and it does not give users motivation to go deeper to look through the website. Thirdly, less visual feedback in pages, almost all the content are only displayed by text, less of user interaction.
- Overall Experience-Boring

Parents

- Utility (perceived usefulness) High, it shows all the different categories on home page, can easily find what they want by quick looking through the webpage.
- Usability
 - Learnability good things in the layout there is an inline list on the mid-top of the page. Its shows which part that the users want to go through.
 - Efficiency once clicked the link, content will dynamically show in the middle, instead of jump to another page, this can increase efficiency by reducing the response time used to open a new webpage. Some quick links can be found on the right side also can increase users efficiency.
 - Memorability High.
 - Errors broken links.
- Desirability Easy to find the information in the web page.
- Overall Experience- Fast and convenient.

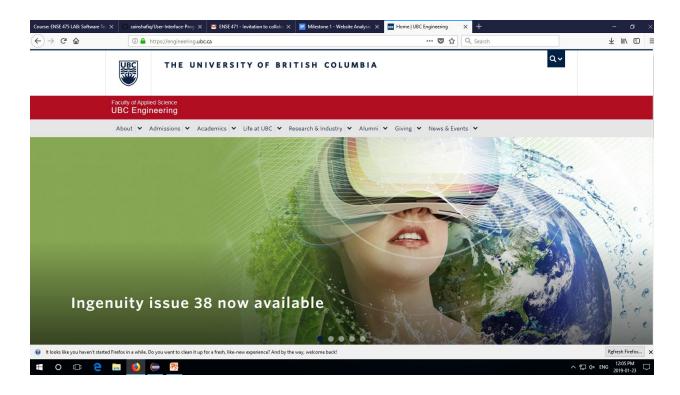
Colleagues not in the Engineering Faculty

- Utility (perceived usefulness) High, it shows all the different categories on home page, can easily find what they want by quick looking through the webpage.
- Usability

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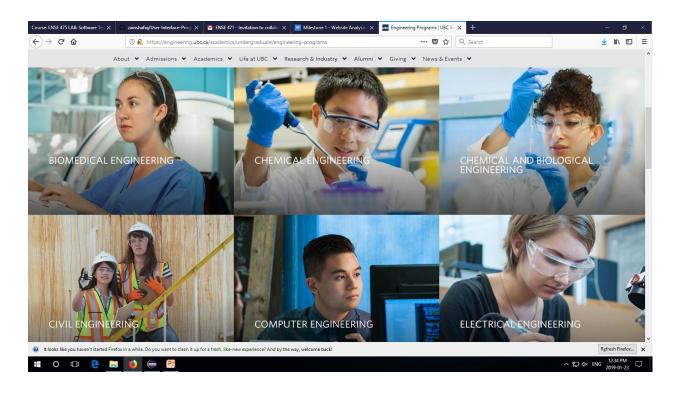
University of British Columbia Engineering

https://engineering.ubc.ca/



- Utility (perceived usefulness) As a future student, the website is useful to get information about the UBC Engineering faculty and provides different ways to attain different, useful information.
- Usability
 - Learnability The website is easy to learn how to use and the user is able to quickly grasp how to navigate the website and get the information they need.
 - Efficiency The website makes good use of space and there is no unnecessary information floating around.
 - Memorability From the perspective of a future student, there are only two
 important menus to go through and coming back to the website, it was easy to
 remember where the important information is and how to continue navigating
 through the website. Everything important for a future student is stated clearly.
 - Errors Little to no error, very little room for mistakes and easy to fix them when it happens just by clicking the back button.
- Desirability This website is very pleasurable to use, through the view of a future student. Every necessary part is straightforward and the information is useful. The way

- there a lots of images and interactive icons makes for a better, more interesting look through.
- Overall Experience Information was easily accessed and straightforward. Very good source of important information.



Current Student

- Utility (perceived usefulness) The website is not as important for current students as it
 only has some necessarily information. There is no specific section that is highlighted as
 current students, and it contains a lot of information that current students would already
 know. However, when the Contact Student Services menu is clicked under the
 Undergraduates section in Admissions, it leads to a different site which has a lot of forms
 necessary for all students.
- Usability
 - Learnability Current students would have already used the website but again, it is not difficult to maneuver.
 - Efficiency The events and news drop-down is relevant to current students and it is an efficient use of the website.
 - Memorability There is high memorability; it is easy to get back into using the website after exiting for a period.
 - Errors Little to no error, very little room for mistakes and easy to fix them when it happens just by clicking the back button.

- Desirability For a current student, the website is a little desirable, and only useful if you know where to look. It does contain much needed information a current student would need but it is not easy to find the page.
- Overall Experience Good aesthetics, but only a hidden small section is needed by current students. There should be an expansion on this small section and it should be made more obvious.

Alumni

- Utility (perceived usefulness) Very useful for the engineering alumni and all the information they may need to stay connected to the university.
- Usability
 - Learnability It is not hard to learn for the alumni. On the main menu of the
 engineering page, it is very clear where an alumni should click when navigating
 the website.
 - Efficiency Very easy and fast to use and scan through information.
 - Memorability There is very high memorability, as the menu is easy to see and the information is clear.
 - Errors Very little room for errors; straightforward.
- Desirability This is good for the alumnus who is interested in staying connected to the going-ons in the university. They can get most of the information they need from the website and they would only the more esoteric information.
- Overall Experience A nice way to relive the memories of the past at the school. There are pictures and information on reunions and events.

Parents

- Utility (perceived usefulness) Good for information seeking parents on a good school for their children, especially the future students. May not be as useful or easy to navigate for parents looking for more information on what their current students are doing, or looking for information to assist their current students.
- Usability
 - Learnability Again, the website is easy to learn for the most part, however, a
 parent may not know the first place to start their search. The menu is helpful on
 where to go.
 - Efficiency Efficient in the sense that it contains useful information, however there is no special menu selection for parents.
 - Memorability Easy to remember when the website has been used before; high memorability.
 - Errors Parents looking for information on the website may be prone to errors at first, as they try to navigate the website.

- Desirability The website is a good source of information for parents to have on hand in case they are not able to reach someone personally. However, it is not a really necessary source for parents.
- Overall Experience Good, perhaps there can be a clear menu for the information parents may need, i.e. frequently asked questions.

Colleagues not in the Engineering Faculty

- Utility (perceived usefulness) Not really useful for colleagues that are not involved in the engineering faculty. Only useful to know events that may be enjoyable in the engineering faculty that may also be enjoyable for the colleague.
- Usability
 - Learnability Easy to learn but is not pressing information.
 - o Efficiency Efficient to navigate.
 - Memorability Easy to remember, but the information wouldn't necessarily stick because the student doesn't need the information.
 - Errors There are no noticeable errors.
- Desirability It is an aesthetically pleasing page but the information is not necessary for this individual.
- Overall Experience Nice to see, not important for this stakeholder.

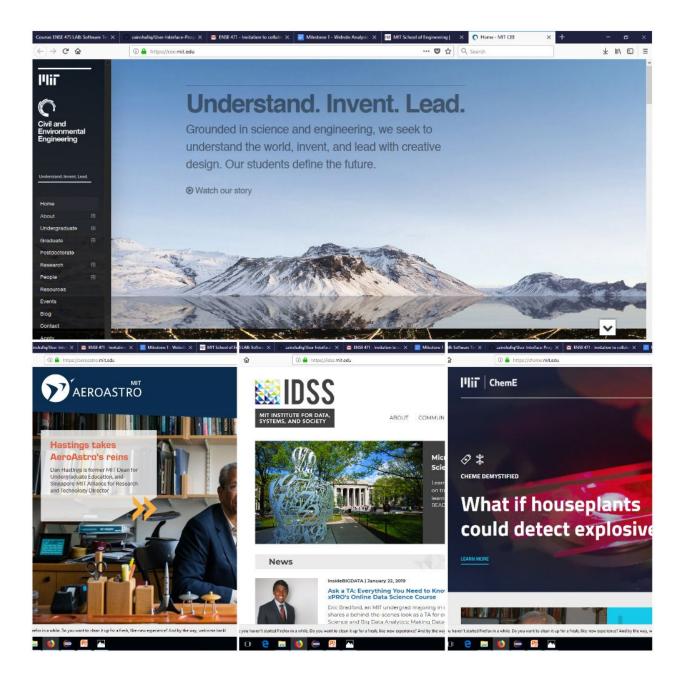
MIT School of Engineering

https://engineering.mit.edu/



- Utility (perceived usefulness) Very good experience especially for future students that will be looking for informations about the school and what is it all about. Every informations that are deem necessary are being given in the homepage with menu bar and hyperlinks provided for a more details experience. Every faculty has its own webpage with their own identity/design which can be find as unique and somewhat interesting.
- Usability
 - Learnability It is easy to use, navigate even with its complex yet interesting CSS design.
 - Efficiency Easy to navigate throughout the page, quick and efficient to get one information.
 - Memorability Every sets of informations are being provided with guidelines (menus, hyperlinks) if extra/detailed infos are needed.
 - Errors Less, close to none. (updated regularly)
- Desirability More improvement can be made in the future but with its interesting design, straightforward information and efficient navigation, the experience are very good.

 Overall Experience - The designs are captivating especially with their individual web page for different program without neglecting focus on important details and informations.



Current Student

- Utility (perceived usefulness) Except for the news and general infos, the web page seems like only useful for a future students or parents since the currents students will have to navigate to its own program web page for necessary informations.
- Usability

- Learnability It is easy to use, navigate even with its complex yet interesting CSS design.
- Efficiency The school of engineering web page are easy to navigate but it's a different story when you go to the different program web page (some of them are easy and some are complex for navigation)
- Memorability Every sets of informations are being provided with guidelines (menus, hyperlinks) if extra/detailed infos are needed.
- Errors Less, close to none for general engineering web page. Some errors in individuals web page.
- Desirability The design, straightforward information and efficient navigation makes the experience very good for the general engineering web page. Unfortunately, some of the individual programs web page need to be improve more especially for their messy design and much confusing navigation.
- Overall Experience The designs are captivating for their individual program but unfortunately they do not go hand to hand with the info and navigation (ease of use).

Parents

- Utility (perceived usefulness) Very good experience especially for parents that will be looking for informations about the school and what is it all about. Every informations that are deem necessary are being given in the homepage with menu bar and hyperlinks provided for a more details experience.
- Usability
 - Learnability It is easy to use, navigate even with its complex yet interesting CSS design.
 - Efficiency Easy to navigate throughout the page, quick and efficient to get one information.
 - Memorability Every sets of informations are being provided with guidelines (menus, hyperlinks) if extra/detailed infos are needed.
 - Errors Less, close to none.
- Desirability More improvement can be made in the future but with its interesting design, straightforward information and efficient navigation, the experience are very good.
- Overall Experience The designs are captivating especially with their individual web page for different program without neglecting focus on important details and informations

Alumni

• Utility (perceived usefulness) - Good experience for alumni to find necessary informations that are deem necessary.

Usability

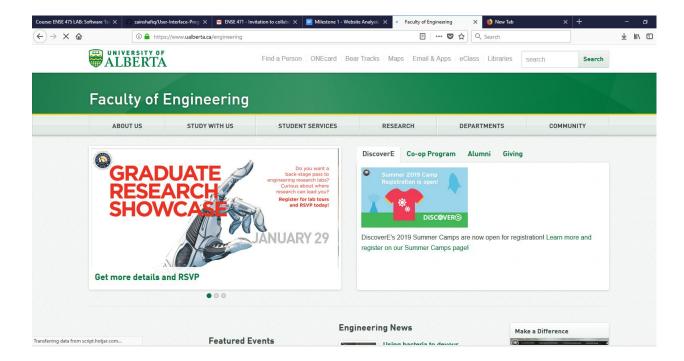
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- Errors Less, close to none for general engineering web page. Some errors in individuals web page.
- Desirability The design, straightforward information and efficient navigation makes the experience very good for the general engineering web page. Unfortunately, some of the individual programs web page need to be improve more especially for their messy design and much confusing navigation.
- Overall Experience The designs are captivating especially with their individual web page for different program without neglecting focus on important details and informations.

Colleagues not in the Engineering Faculty

- Utility (perceived usefulness) Interesting and captivating design. User friendly.
- Usability
 - Learnability It is easy to use to navigate to find necessary information
 - Efficiency Easy to navigate throughout the page, quick and efficient
 - Memorability Every sets of informations are being provided with guidelines (menus, hyperlinks) if extra/detailed infos are needed.
 - Errors None.
- Desirability More improvement can be made in the future but with its interesting design, straightforward information and efficient navigation, the experience are very good.
- Overall Experience The designs are interesting and nice ("Ouh wow, I like it better than our university web page" Andy Zheng, U of R CS Major).

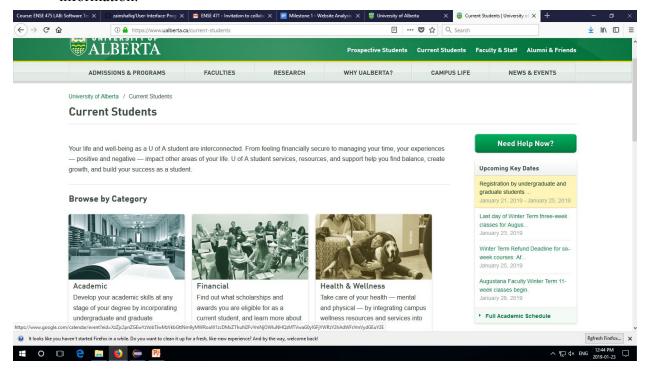
University of Alberta

https://www.ualberta.ca/engineering



- Utility The engineering website of University of Alberta seems to be an useful website for the students. Students can get all the necessary information related to certain program. It is very easy to navigate the necessary information. Well described negaviation bar.
- Usability
 - Learnability the webpage is easy to use and can easily navigate through all the sections of the webpage. Also user can easily go back to its original page as it has good signifiers
 - Efficiency The layout of the page seems to be an interesting. The informations available on the main page of engineering website is not properly laid out. It is not easy to recognized the information
 - Memorability As a future student perspective, it is very easy to go through the the section as there is separation section available for the future to find the important information. It is very easy to memorise the way of going back to the main page
 - Errors could not find any errors on webpage

- Desirability need to focus on the layout of the page, font type and color. Overall the experience was very good and desirable design of the webpage
- Overall Experience It is easy to use and fast as well able to find all the necessary information



Current Student

- Utility (perceived usefulness) if we see as a current student perspective, it is quite good for the current students. The webpage is very useful to for the current student as it provides all the important information like student resources, news and events, academic advisors information etc.
- Usability
 - Learnability The website is easy to learn how to use and the user is able to quickly learn how to navigate the website and get the information they need.
 - Efficiency it is very efficient school website as it is easy to find all important and necessary information as well as it is easy to navigate
 - Memorability it has high memorability as it is easy to use
 - Errors could not able to find any error
- Desirability For the current students, the website is desirable as much needed informations are available on the website. And being a current students, the informations are very useful
- Overall Experience need to focus on the layout of the page, font type and color. Overall the experience was very good and desirable design of the webpage

Parents

- Utility (perceived usefulness) Very good experience especially for parents that will be looking for informations about the school and what is it all about.
- Usability
 - Learnability it might be little difficult for a parent to find the information at first look. But after using the website bit more, they can find information easily
 - Efficiency easy to navigate through the sections, quick and easy to follow
 - Memorability it has high memorability, Easy to remember and easy to go through all the sections
 - Errors No errors detected
- Desirability Easy to find the information in the web page, it is desirable
- Overall Experience it is easy to search and it is convenient to use. Overall good experience

Colleagues not in the Engineering Faculty

- Utility (perceived usefulness) easy to find the informations and user friendly design
- Usability
 - Learnability It is easy to use to navigate to find necessary information.
 - Efficiency Easy to navigate throughout the page, quick and efficient
 - Memorability it is very efficient school website as it is easy to find all important and necessary information as well as it is easy to navigate
 - o Errors No errors detected
- Desirability Easy to find the information in the web page, it is desirable
- Overall Experience it is easy to search and it is convenient to use. Overall good experience

Alumni

- Utility (perceived usefulness) Very useful for the engineering alumni and all the information they may need to stay connected to the university.
- Usability
 - Learnability It is not hard to learn for the alumni. On the main page of the engineering website, there is a section for the alumni to go through where they can find all necessary information
 - Efficiency it is very efficient school website as it is easy to find all important and necessary information as well as it is easy to navigate

- Memorability There is very high memorability, as the menu is easy to see and the information is clear
- Errors Very little room for errors
- Desirability For the Alumni, the website is desirable as much needed informations are available on the website and is to good to be stayed connected
- Overall Experience A nice way to relive the memories of the past at the school. There are pictures and information on reunions and events.